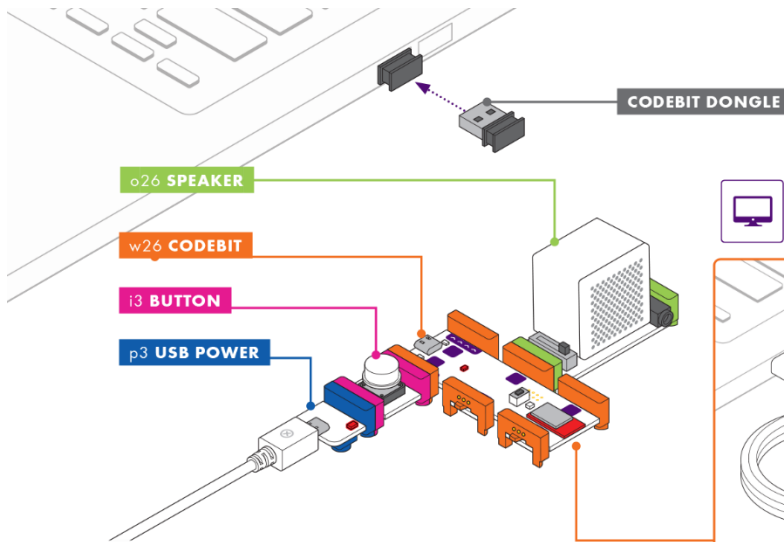# Little Bits Code Kit Reference

HOW IT WORKS

IT STARTS WITH POWER
Start any circuit with a blue Power module, powered by a battery or AC adapter
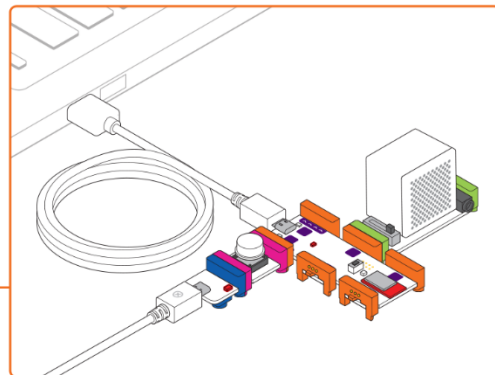
SNAP 'EM TOGETHER
Modules snap together with magnets so it's impossible to make a mistake

CONTROL WITH AN INPUT
Pink Input modules include buttons, switches, and sensors to interpret their surroundings.

p1 power
9-12V
off on

i5 slide dimmer

w7 fork
o21 number
reset
read count
up
down
value
volts

o9 bargraph

o11 servo
swing

CODEBIT DONGLE

o26 **SPEAKER**

w26 **CODEBIT**

i3 **BUTTON**

p3 **USB POWER**

GO TO
LITTLEBITS.COM/
CODE-KIT-APP

You can also connect the codeBit over a USB cable instead of using the codeBit dongle.

Power Bits:

provide the power to get inventions up and running.

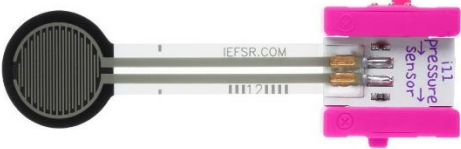|	
USB power	Power your invention
PowerSnap	Supplies power to an open input without extra forks, splits, or power supplies.
USB Power Adaptor & Cable	Connect a USB cable to your computer or phone charger to power your inventions.
Rechargeable Battery	The rechargeable battery is a portable power source for your inventions, which you can use over and over again.

Input Bits:

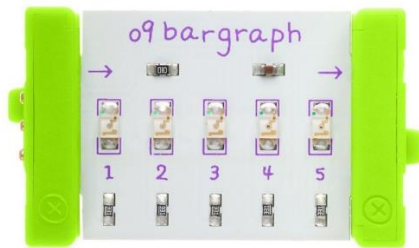## Sends information to a system
(like an ON and OFF button)

Slide Dimmer	**Raise or lower the input signal* by sliding the lever.**
Sound Trigger	**The sound trigger sends an ON signal when the noise gets over a certain level.***
Button	**Send input signal when the button is pushed**
Pressure Sensor	**Raise or lower the input signal* by putting pressure on the pad.**
Dimmer	**Raise or lower the input signal* by twisting the peg**

*Any input bits that raise or lower the signal will need additional coding to get the value of the input (between 0 and 1)
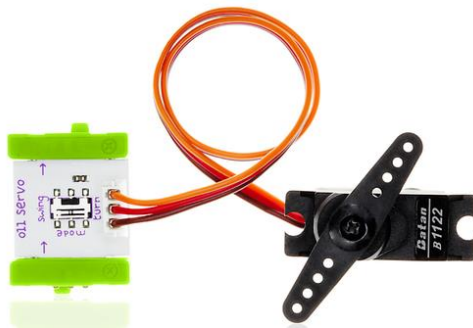
Output Bits:

Results supplied by a device or system.

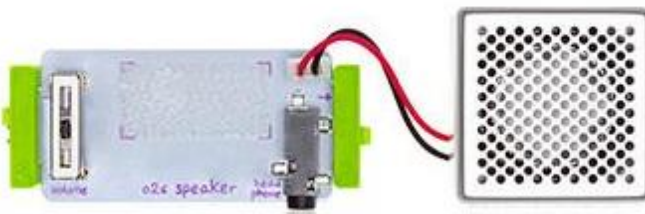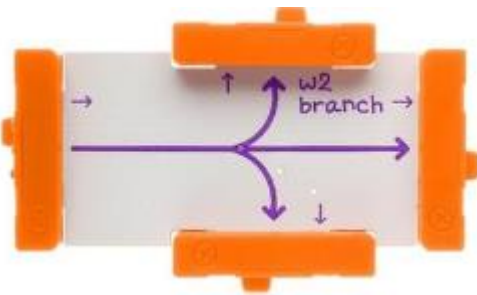|	
Bargraph 	**Shows you how much signal the Bit is receiving with a display of 5 LEDs in different colors**
Servo 	**Motor that can swing back and forth or be turned to a specific position.**
Speaker 	**Program your LittleBits to make noises and/or music.**
LED Matrix 	**Colorful display where you can code and display your own images.**

Wire Bits

Helps you extend and branch your project
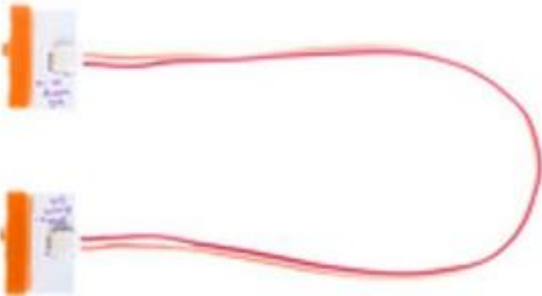
Codebit	The codebit allows you to wirelessly upload code from your computer to your codeBit.
Branch	The branch Bit lets you connect the output of a single Bit to as many as 3 others.
Wire	The wire allows you to extend your circuits and put more space between two Bits.

Accessories

Additional tools to help your build your project

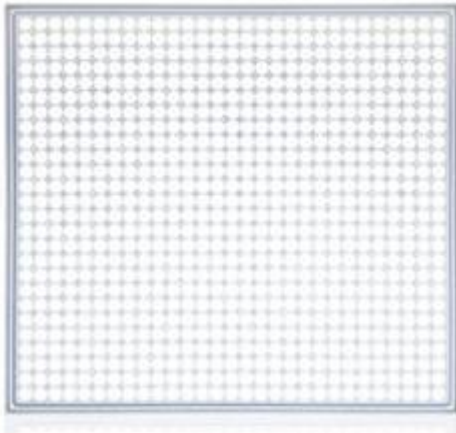|	
CodeBit Dongle	Allows you to wirelessly upload code from your computer to your codeBit.
Mechanical Arm	Attach the arm to your servo or DC motor to expand your invention's motion capabilities.
Servo Mount	Use a servo mount and littleBits shoe to secure your servo motor to any surface.

Shoes (Hook & Loop)	Press shoes onto your circuit to keep it securely intact.
STRIPS (HOOK & LOOP)	The strip can be cut to any size you desire and affixed to clothing, fabric, or any other surface.
Mounting Board (8x7)	The mounting board serves as the backbone of your inventions. It provides structure, and allows you to keep your circuit intact and move it around with ease. This mounting board can accommodate large circuits.
Screws	The screws secure attachments like the mechanical arm and servo mount to your invention.